



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 117145**

**TO: David Lukton**

**Location:**

**Art Unit: 1653**

**March 17, 2004**

*3B7S*

**Case Serial Number: 10008244**

**From: P. Sheppard**

**Location: Remsen Building**

**Phone: (571) 272-2529**

**sheppard@uspto.gov**

### **Search Notes**

SEARCH REQUEST FORM  
(STIC)

Access DB# 111145

Requestor's Name: David Lukton

Examiner number: 71263

Date: 3/17/04

Art Unit: 1653

Phone number: 571-272-0952

Serial Number:

10-008,244

Mail Box: 3-C-70

Examiner Rm: 3-B-75

Results format: paper

\*\*\*\*\*

Title of application: STAT Modulators

Applicants: HUANG, ALAN; LIU, JIWEN; MEDINA, JULIO; WANG, XUEMEI;  
XU, FENG; ZHU, LIUSHENG

Earliest Priority Date: 11/8/00

\*\*\*\*\*

Applicants are claiming the compounds on the attached sheet

R<sub>1</sub> = anything

R<sub>2</sub> = anything

X = -O- or -C H<sub>2</sub>-

Z = -O- or -C H<sub>2</sub>-

Y is -(CH<sub>2</sub>)<sub>n</sub>-CO- or -CH<sub>2</sub>=CH<sub>2</sub>-CO-

[wherein "n" is an integer of 0 - 3]

R<sub>3</sub> = anything

R<sub>4</sub> = anything

R<sub>5</sub> = hydrogen or aryl or heteroaryl or arylalkyl or heteroaryl-alkyl

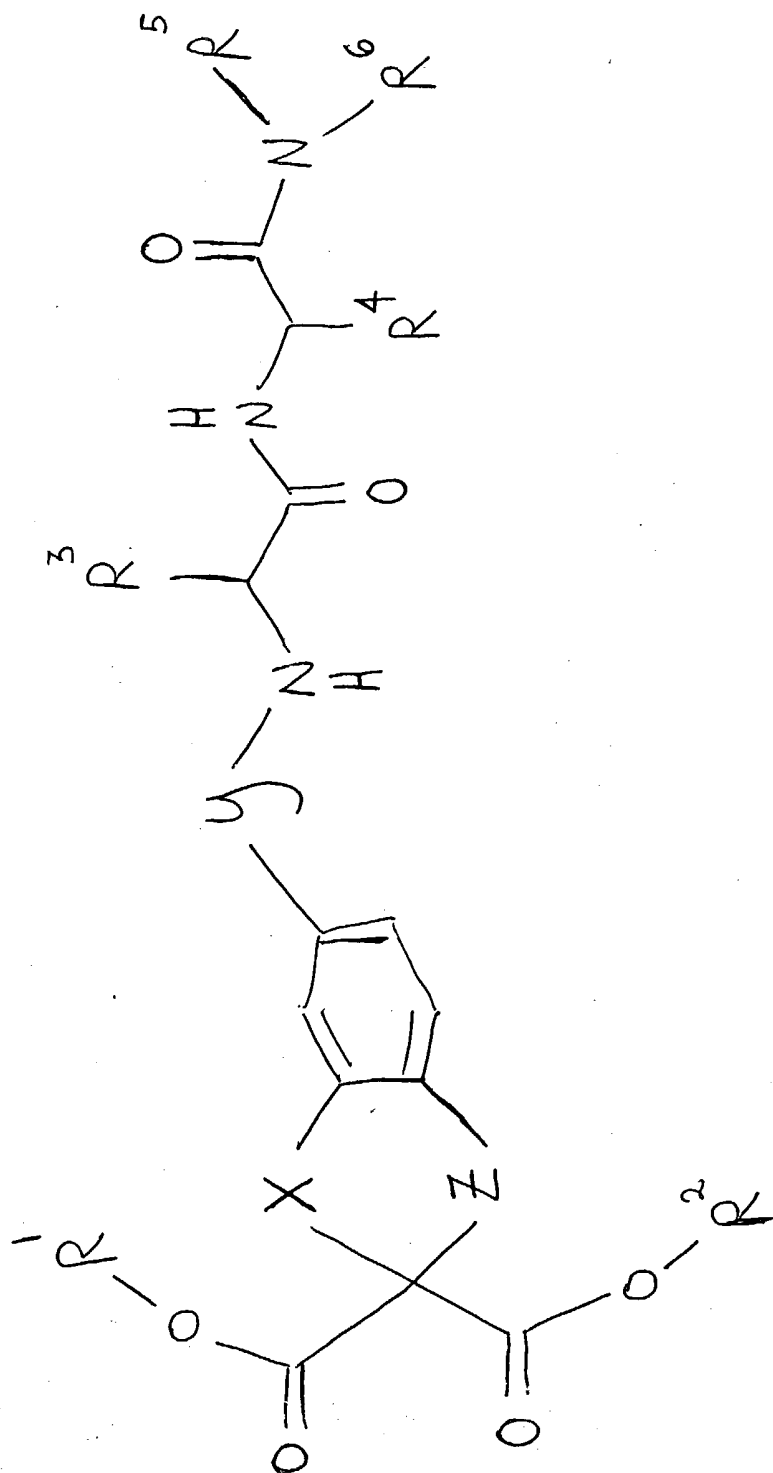
R<sub>6</sub> = aryl or heteroaryl or arylalkyl or heteroaryl-alkyl

\*\*\*\*\*  
STAFF USE ONLY

Type of Search

Vendors and cost where applicable

Searcher: _____	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Ticked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: _____	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

$$10/008,244$$


=> fil hcaplus  
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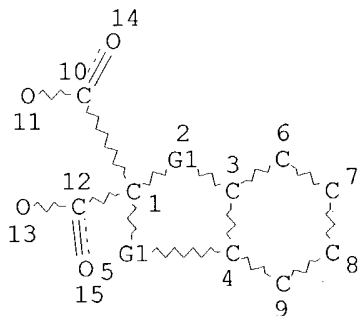
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FILE COVERS 1907 - 17 Mar 2004 VOL 140 ISS 12  
 FILE LAST UPDATED: 16 Mar 2004 (20040316/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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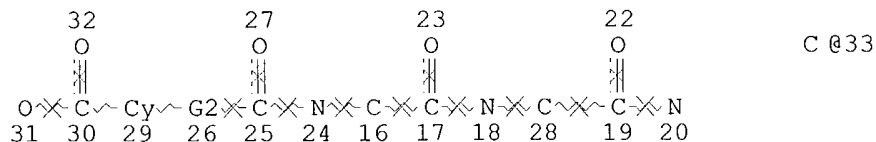
=> d stat que 144  
 L33 STR



VAR G1=O/C  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE  
 L35 1081 SEA FILE=REGISTRY SSS FUL L33  
 L41 STR



REP G2=(0-3) 33

## NODE ATTRIBUTES:

NSPEC IS RC AT 16  
 NSPEC IS RC AT 17  
 NSPEC IS RC AT 18  
 NSPEC IS RC AT 19  
 NSPEC IS RC AT 20  
 NSPEC IS RC AT 24  
 NSPEC IS RC AT 25  
 NSPEC IS RC AT 28  
 NSPEC IS RC AT 30  
 NSPEC IS RC AT 31  
 NSPEC IS RC AT 33  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 17

## STEREO ATTRIBUTES: NONE

L43 39 SEA FILE=REGISTRY SUB=L35 SSS FUL L41  
 L44 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L43

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=> d ibib abs 144 1  
 1 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE  
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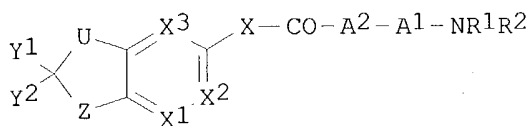
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L44 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2002:368261 HCAPLUS  
 DOCUMENT NUMBER: 136:370001  
 TITLE: Preparation of peptides as STAT modulators  
 INVENTOR(S): Huang, Alan; Liu, Jiwen; Medina, Julio; Wang, Xuemei;  
 Xu, Feng; Zhu, Liusheng  
 PATENT ASSIGNEE(S): Tularik Inc., USA  
 SOURCE: PCT Int. Appl., 78 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

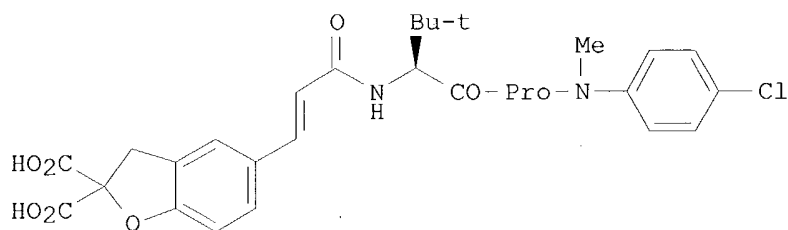
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002038107	A2	20020516	WO 2001-US50760	20011108
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002151504	A1	20021017	US 2001-8244	20011107
AU 2002031325	A5	20020521	AU 2002-31325	20011108
PRIORITY APPLN. INFO.:			US 2000-246876P	P 20001108
			WO 2001-US50760	W 20011108

OTHER SOURCE(S):  
GI

MARPAT 136:370001



I



II

AB Peptide derivs. I [R1, R2 = H, (C1-C8)alkyl, (C1-C8)heteroalkyl, aryl, heteroaryl, aryl(C1-C8)alkyl, aryl(C1-C8)heteroalkyl, heteroaryl(C1-C8)alkyl, heteroaryl(C1-C8)heteroalkyl (with provisos); A1, A2 are L- or D-.alpha.-amino acid fragments, including N-alkyl derivs.; X is a bond or (C1-C4) (un)satd. (hetero)alkylene; X1, X2, X3 = N, CH or substituted methylidyne; U or Z is a single bond, CH2, CH(OH), CO, CH2O, CH2CH2, CH2CO, O, S, SCH2, NH, NHCH2 or substituted imino or iminomethylene; Y1, Y2 = CO2H or ester or may join together to form a 5-, 6-, 7- or 8-membered heterocyclic ring] and compns. contg. them were prepd. for the inhibition or treatment of conditions or disorders modulated by STAT transcription factors, particularly STAT4 and STAT6. Addnl., the compds. are useful for the diagnosis of conditions dependent on STAT signaling. Thus, compd. II was prepd. by a multistep procedure using tert-Bu Me bromomalonate, 2-(chloromethyl)-4-bromophenol, acrylic acid, 4-chloroaniline, Boc-L-proline, (Boc = tert-butoxycarbonyl), and Boc-L-tert-butylglycine as reactants. Several compds. I had IC50 values < 50 .mu.M for inhibition of STAT6.

IT 422570-29-4P 422570-30-7P 422570-32-9P  
422570-33-0P 422570-34-1P 422570-35-2P  
422570-36-3P 422570-37-4P 422570-38-5P  
422570-39-6P 422570-40-9P 422570-41-0P  
422570-42-1P 422570-43-2P 422570-44-3P  
422570-45-4P 422570-46-5P 422570-47-6P  
422570-48-7P 422570-49-8P 422570-50-1P  
422570-51-2P 422570-52-3P 422570-53-4P  
422570-54-5P 422570-55-6P 422570-56-7P  
422570-57-8P 422570-58-9P 422570-59-0P  
422570-60-3P 422570-61-4P 422570-62-5P  
422570-63-6P 422570-64-7P 422570-65-8P

RL: DGN (Diagnostic use); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of peptides as STAT modulators)

IT 422570-71-6P 422570-80-7P 422570-91-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of peptides as STAT modulators)

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=> fil caold

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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